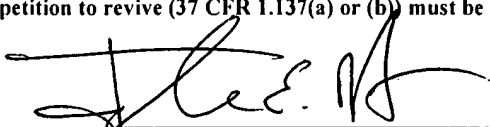


<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>16518.162</b>
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/518753</b>
INTERNATIONAL APPLICATION NO. <b>PCT/US2003/019445</b>	INTERNATIONAL FILING DATE <b>20 June 2003 (20.06.2003)</b>	PRIORITY DATE CLAIMED <b>21 June 2002 (21.06.2002)</b>
TITLE OF INVENTION <b>Nucleic Acid Sequences and Methods of Use for the Production of Plants with Modified Polyunsaturated Fatty Acids</b>		
APPLICANT(S) FOR DO/EO/US <b>Joanne J. FILLATTI</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US); however, a courtesy copy is attached.</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: <b>Statement Regarding Sequence Submission</b></li> </ol>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450 Alexandria, VA 2213-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22131-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/518753</b>		INTERNATIONAL APPLICATION NO. PCT/US2003/019445		ATTORNEY'S DOCKET NUMBER 16518.162	
21. The following fees are submitted: <input type="checkbox"/> a) Basic national fee.....\$300.00 <input type="checkbox"/> b) Examination fee.....\$200.00 <input type="checkbox"/> c) Search fee .....\$500.00 <b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b>				<b>Applicant use</b>	<b>Office use only</b>
				\$ 300.00	
				\$ 200.00	
				\$ 500.00	
				\$ 1,000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (including sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
98 - 100 =	0 / 50 =	0	x \$250.00	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	19 - 20 =	0	x \$50.00	\$ 0.00	
Independent claims	9 - 3 =	6	x \$200.00	\$ 1,200.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$ 1,200.00</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
<b>SUBTOTAL =</b>				<b>\$ 2,330.00</b>	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+	\$
<b>TOTAL NATIONAL FEE =</b>				<b>\$ 2,330.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.21). \$40.00 per property				+	\$
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 2,330.00</b>	
				Amount to be refunded:	\$
				Amount to be charged	\$
a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. 50-2387 in the amount of \$ <u>2,330.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2387. A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b>					
SEND ALL CORRESPONDENCE TO: <b>ARNOLD &amp; PORTER LLP</b> Attn: IP Docketing 555 Twelfth Street, N.W. Washington, DC 20004 Tel.: 202-942-5000 Fax: 202-942-5999					
Filed: <u>December 21, 2004</u>			 SIGNATURE		
			Thomas E. Holsten/David R. Marsh		
			NAME		
			46,098/41,408		
			REGISTRATION NUMBER		

## ARNOLD &amp; PORTER LLP

Thomas E. Holsten  
Thomas\_Holsten@aporter.com

202.942.5085  
202.942.5999 Fax

555 Twelfth Street, NW  
Washington, DC 20004-1206

December 21, 2004

Mail Stop PCT  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Re: U.S. National Phase Application based on  
Int'l Appln. No. PCT/US2003/019445 filed 20 June 2003  
Earliest Priority Date: 21 June 2002  
Inventor: Joanne J. FILLATTI  
Title: Nucleic Acid Sequences and Methods of Use for the Production  
of Plants with Modified Polyunsaturated Fatty Acids  
Atty Docket: 16518.162

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office (PTO):

1. Transmittal Letter to the United States Designated/Elected Office (DO/EO/US)  
Concerning a Filing under 35 U.S.C. 371 (PTO-1390), in duplicate;
2. U.S. National Phase Application entitled:

**Nucleic Acid Sequences and Methods of Use for the Production of  
Plants with Modified Polyunsaturated Fatty Acids,**

and naming as inventor:

**Joanne J. FILLATTI;**

the application consisting of:

- a. specification containing:
  - (i). 1 page of bibliographic data and published abstract from  
WO 04/001001 A2 (publication of Int'l Appln. PCT/US03/19445);
  - (ii). 57 pages of a description prior to the claims; and
  - (iii). 4 pages of claims (19 claims);

## ARNOLD &amp; PORTER LLP

Commissioner for Patents  
Atty. Dkt.: 16518.162  
December 21, 2004  
Page 2

- b. 23 pages of a sequence listing; and
- c. 13 sheets of Drawings (Figures 1-13);
- 3. Floppy diskette containing sequence listing in computer-readable form;
- 4. Statement Regarding Sequence Submission; and
- 5. Two (2) return postcards.

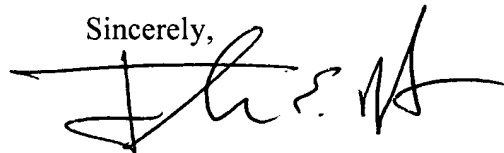
This application claims priority to U.S. Application No. 10/176,149 filed June 21, 2002.

Submitted herewith is a paper copy of the sequence listing and a floppy diskette containing the sequence listing in Computer Readable Form (CRF). The enclosed floppy diskette contains one file called "16518129 Seq Listing.txt" which is 43,235 bytes in size (measured in MS-DOS) and was created on December 21, 2004.

Please stamp one of the two attached postcards with the filing date of these documents and return it to our courier, and stamp the other prepaid postcard with the filing date and unofficial application number and return it as soon as possible.

This application is being submitted without an executed Declaration. Authorization to charge the filing fees to counsel's deposit account is given in the accompanying Form PTO-1390. Applicants do not believe any additional fees, other than those provided for on the accompanying Form PTO-1390 are due in conjunction with this filing. However, if any fees are required in the present application, including any fees for extensions of time, authorization is given in the accompanying Form PTO-1390 to charge such fees to counsel's deposit account.

Sincerely,



Thomas E. Holsten (Reg. No. 46,098)  
David R. Marsh (Reg. No. 41,408)

Enclosures